

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of claims in the application.

1. (Original): A method of fabrication of an RE-Ba-Cu-O-based oxide superconductor, characterized by using an RE-Ba-O-based compound (RE being one type or two types or more of rare earth elements) and a Ba-Cu-O-based material for liquid phase as a starting material, melting the material for liquid phase, then growing the crystal.

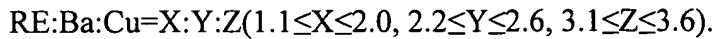
2. (Original): A method of fabrication of an RE-Ba-Cu-O-based oxide superconductor as set forth in claim 1, characterized by infiltrating a Ba-Cu-O-based material for liquid phase into a skeletal structure formed by an RE-Ba-O-based compound (RE being one type or two types or more of rare earth elements), then growing the crystal.

3. (Original): A method of fabrication of an RE-Ba-Cu-O-based oxide superconductor as set forth in claim 2, characterized in that said skeletal structure is formed by fine particles of an RE-Ba-O-based compound.

4. (Currently amended): A method of fabrication of an RE-Ba-Cu-O-based oxide superconductor as set forth in ~~any one of claims 1 to 3~~ claim 1, characterized in that said RE-Ba-O-based compound is RE₂BaO₄ (RE being one type or two types or more of rare earth elements).

5. (Currently amended): A method of fabrication of an RE-Ba-Cu-O-based oxide superconductor as set forth in ~~any one of claims 1 to 3~~ claim 1, characterized in that said RE-Ba-O-based compound is RE₄Ba₃O₉ (RE being one type or two types or more of rare earth elements).

6. (Currently amended): A method of fabrication of an RE-Ba-Cu--O-based oxide superconductor as set forth in ~~any one of claims 1 to 5~~ claim 1, characterized in that an average composition of a composition comprised of said RE-Ba-O-based compound and Ba-Cu-O-based material for liquid phase is



7. (Currently amended): A method of fabrication of an RE-Ba-Cu-O-based oxide superconductor as set forth in ~~any one of claims 1 to 6~~ claim 1, characterized in that said RE-Ba-O-based compound and/or Ba-Cu-O-based material for liquid phase contains platinum (Pt) or CeO₂ in an amount of not more than 2 mass.

8. (Currently amended): A method of fabrication of an RE-Ba-Cu-O-based oxide superconductor as set forth in ~~any one of claims 1 to 7~~ claim 1, characterized in that said RE-Ba-O-based compound and/or Ba-Cu-O-based material for liquid phase further includes silver (Ag) in an amount of not more than 30 mass% as a dispersed phase.